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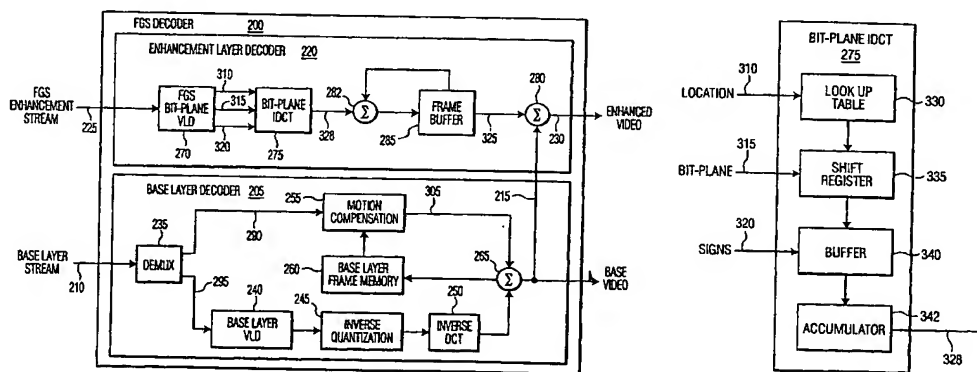
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(54) Title: **SYSTEM AND METHOD FOR BIT-PLANE DECODING OF FINE-GRANULARITY SCALABLE (FGS) VIDEO STREAM**

(57) Abstract: A method of inverse transform of bit-plane-oriented discrete cosine transform transformed data representing the enhancement layer of a frame of video data encoded in a fine granularity scalability comprising: providing a lookup table comprising a matrix of numerical contributions based on location of a bit-plane cell within any bit-plane of a bit-plane set, the numerical contributions independent of bit-plane order; selecting the numerical contribution from the lookup table for each bit-plane cell having a discrete cosine transform coefficient of 1 in each bit-plane; and shifting a binary representation of each selected numerical contribution by number of bit-positions equal to a bit-plane number of the bit-plane of which a particular bit-plane cell is a member.

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*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*